

Limit to Infinity Practice

$$1) \lim_{n \rightarrow \infty} \frac{n^2 + 5n - 72}{3n^2}$$

$$7) \lim_{n \rightarrow \infty} \frac{0}{85n^2 + 7}$$

$$2) \lim_{n \rightarrow \infty} \frac{4n^2}{n}$$

$$8) \lim_{n \rightarrow \infty} \frac{8 \cdot 7n^2 + 50n^3}{n^3 + 2 \cdot 65n^2}$$

$$3) \lim_{n \rightarrow \infty} \frac{2n + 5n^3 + 720n^5}{n^5 + 2n^4 + 3n^2}$$

$$9) \lim_{n \rightarrow \infty} \frac{50n + 30n + 2 \cdot 5867}{20n + 5n - 2n + 0.87}$$

$$4) \lim_{n \rightarrow \infty} \frac{2n^2 + n - 27}{2n^2 + n - 27n^5}$$

$$10) \lim_{n \rightarrow \infty} \frac{8 \cdot 5n^7 + 8 \cdot 5n^8}{n^6 + 5 \cdot 672n^7}$$

$$5) \lim_{n \rightarrow \infty} \frac{n - 7 + 27n}{27n + n - 7}$$

$$11) \lim_{n \rightarrow \infty} \frac{50n^{1.2}}{85n^{7.34}}$$

$$6) \lim_{n \rightarrow \infty} \frac{8}{5n^2 + 7}$$

Show Long Way:

$$12) \lim_{n \rightarrow \infty} \frac{8n^3 + 7n^2 + 65n}{7n^3 + 80n^2 + 5n}$$